INFORMATION REPORT INFOR

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CENTRAL INTELLIGENCE AGENCY

C-O-N-F-I-D-E-N-T-I-A-L
NO FOREIGN DISSEM

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COUNTRY Hungary

SUBJECT Explosives Factory at Nagyteteny

REPORT

DATE DISTR. 7 SEP 1962

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REFERENCES RD

DATE OF INFO.

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THIS IS UNEVALUATED INFORMATION.

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1. The Banyagyutacsgyar (Mine Fuse Factory) is located at Nagyteteny, about 16 km. southwest of Budapest. It is under military control and is the most important plant of its kind in Hungary. The labor force consists of about 400 civilians of whom about 150 are women. The internal and external guard force is made up of military personnel. The plant produces electrical, fuse and chemical detonators for mines and percussion caps for light and medium cartridges; however, its main output consists of electrical detonators.

2. The equipment of the plant's explosives-manufacturing unit is of Hungarian design and is modern and excellent. Equipment for working metal parts, however, is old and is scheduled to be replaced with more modern equipment including equipment made in the West such as hydraulic presses.

3. Explosives used are tetracene and lead styphnate, usually mixed in a one to one ratio. Often, however, the ratio is varied according to the climatic conditions in which the product may be used, and the type of capsule (detonators for mines or primer capsules). Total capacity of the plant is 12 kilograms of tetracene and 24 kilograms of lead styphnate for each 8-hour shift. These quantities are dry weights. It is not known if the entire production is used in the plant or whether some is sent elsewhere.

4. The plant is equipped with four Hungarian designed and constructed installations for drying the detonating mix (see attachments 1, 2 and 3). The mix is made in a humid state and then dried in these installations according to the process explained in attachment 4. Each installation consists of a room where the control console is located and another room, which is air conditioned and has armored walls, where the mixing and drying equipment is located. The arrangement insures maximum safety.

5 4 3 2 1

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IV. ENUMERATION OF THE PLANT UNITS.

The control box located in the anteroom consists of:
1 + 1 frame tilting moving mechanisms
1 + 1 knocker moving mechanisms
1 + 1 sifter moving mechanisms
1 + 1 flask lifter moving mechanisms
1 + 1 central oil pump part
1 + 1 control cylinders

Also in the anteroom are mounted:
1 + 1 suction stubs
1 + 1 thermoventilators built integral with the calorifers
1 + 1 air conduits
1 + 1 electrical equipments mounted in the control box
1 + 1 sets of control wheels, time switching clocks, temperature regulating and recording instruments
/The latter together with connecting lines to the thermometer/.

Mechanisms in the drying chambers:
1 + 1 drying frame stands
1 + 1 frame tilters
1 + 1 sieves
1 + 1 two-armed flask lifters.

III. OPERATION OF THE PLANT.

The drying process is the following: the trained chemical worker puts the wet priming composition brought from the wet material storage room on the drying frames and then he puts the frames on the drying frame stands located in the drying chamber. He also puts the hard rubber flasks necessary for the dried material on the flask lifters. This being done he shuts the iron doors and sets the time switching clocks located on the switch box in the starter button and the plant will attend to the other work automatically as follows:

1. It lifts the flasks to their place pressing them up.
2. It starts the air fan and switches on the electrical calorifers heating the air.
3. It keeps the temperature of the air blown in on the same level by means of an automatic temperature regulator.
4. At the end of the drying time it switches off the calorifers and cools the dried material by blowing in cold air.
5. After cooling the plant switches off the air fan.
6. By tilting it throws off from the frames the dried and cooled material onto the sieve.
7. It knocks the frames that no material should remain on them.
8. It performs sifting.
9. The sifted material drops into the hard rubber flasks; after completion of sifting the plant releases the flasks from their lifted and pressed-up position.
10. It makes the room dead and so renders entrance into the drying chamber possible.

The further job of the operator is to bring the material sifted into the flasks out from the drying chamber while observing the prescribed safety measures, to weigh it on the balance in the anteroom and to take it into the storage room.

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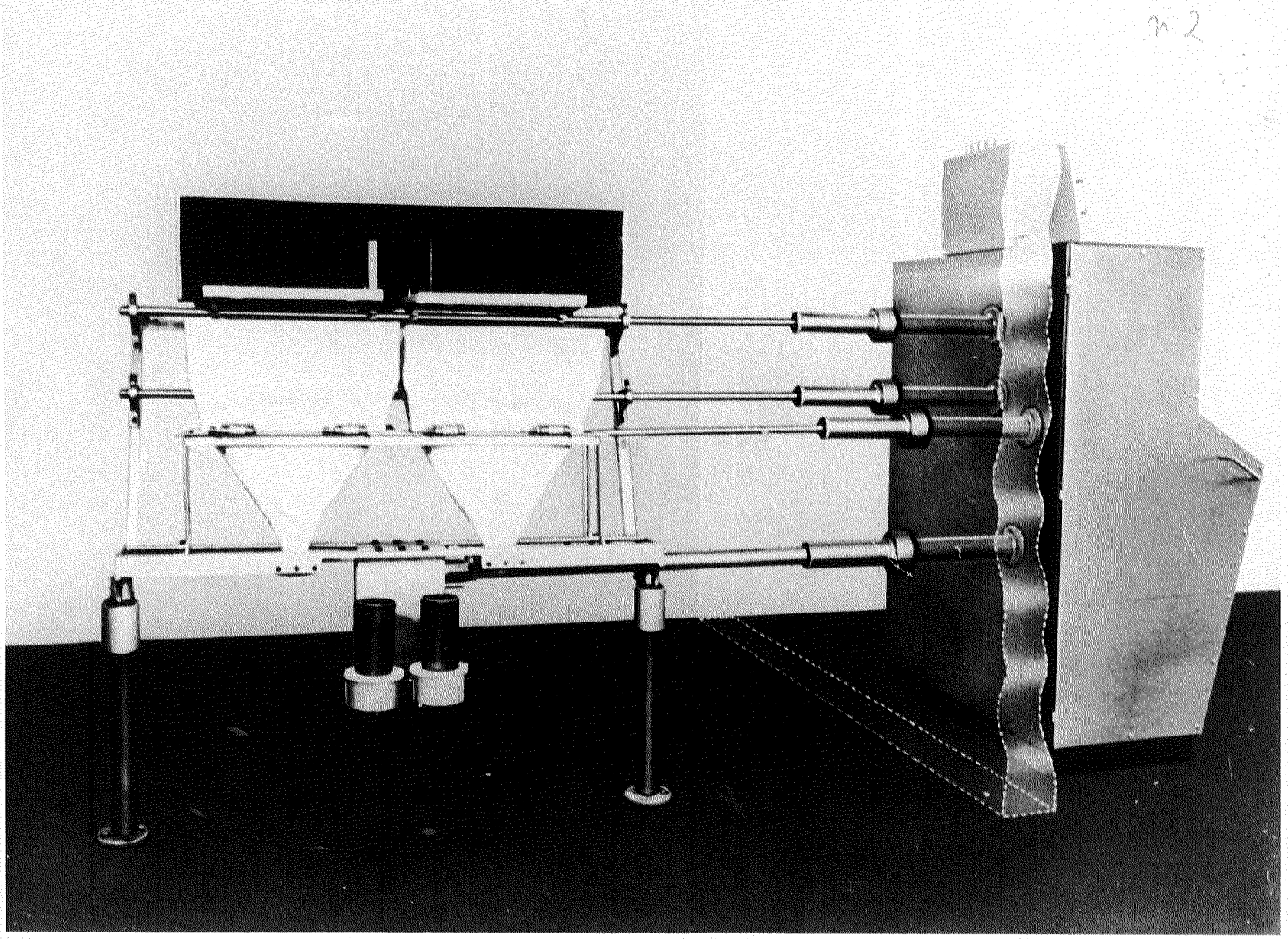

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HUNGARY PEST NAGYTETENY 47 24 N 18 59 E

MINE FUSE FACTORY - EXPLOSIVE MIXING AND DRYING EQUIPMENT.

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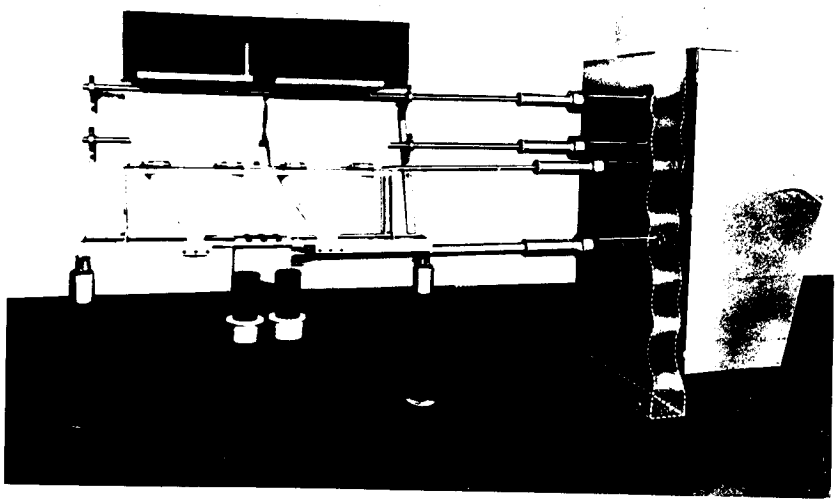

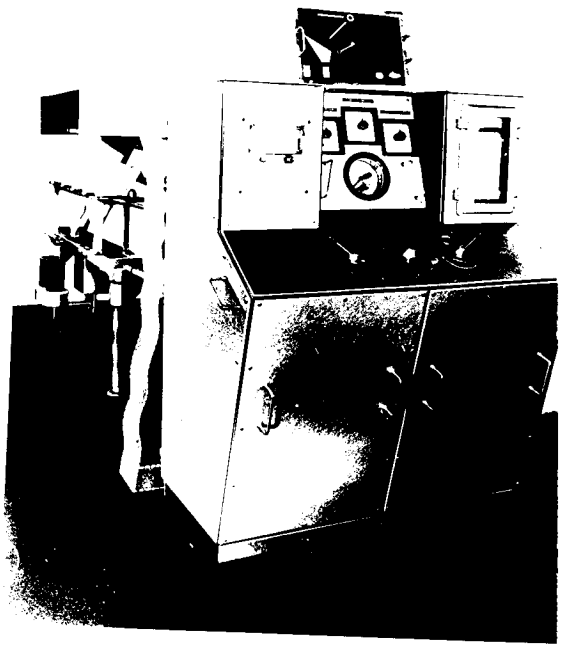

HUNGARY PEST NAGYTETENY 47 24 N 18 59 E

MINE FUSE FACTORY - EXPLOSIVE MIXING AND DRYING EQUIPMENT CONTROL BOARD

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